

Notice of Allowability

Application No.

09/806,510

Examiner

Ronald Baum

Applicant(s)

SAITO, MAKOTO

Art Unit

2136

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/10/06.
2. ☒ The allowed claim(s) is/are 87-178.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

Examiner's Statement of Reasons for Allowance

1. Claims 87-178 are allowed over prior art.
2. This action is in reply to applicant's correspondence of 10 January 2006.
3. The following is an examiner's statement of reasons for the indication of allowable claimed subject matter.
4. As per claims 87,89,102,104,117,119,136,138,155,167 generally, prior art of record, Davis, U.S. Patent 5,825,879, fails to teach alone, or in combination, other than via hindsight, at the time of the invention, the features as discussed and remarked upon in the response of 1/10/2006 to office action of 8/9/2005, and further discussed in the examiner interview of 1/4/2006.

Specifically, (as per claim 87, for example) prior art dealing with cryptographic devices and methods used for protecting decrypted data (i.e., content) from illegitimate or unauthorized use via encryption, (i.e., Fields, S.E., 'Hardware Design and Implementation of Role-Based Cryptography', 12/2005, Univ. of Tennessee, entire document, <http://microsys6.engr.utk.edu/ece/thesis-sfields.pdf>), generally deals with cryptographic protection of data via various levels of encryption, multiple encryption, keys and key management. Nowhere in the prior art is found collectively the *italicized* claim elements (i.e., the use of changeable and operationally established unchangeable keys in an re-encryption/ decryption of decrypted content data, with the claimed sequence of key/encryption/re-encryption utilization) serving to patently distinguish the invention from said prior art;

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“A method for protecting *decrypted digital data* from illegitimate use, said method comprising:

encrypting said *decrypted digital data* using

a changeable key to produce

changeable key re-encrypted digital data;

encrypting said *changeable key re-encrypted digital data* using

an *unchangeable key* to produce

changeable-unchangeable keys double re-encrypted digital data

to be stored, copied and/or transferred,

wherein said *unchangeable key* is *capable of being*

operationally unchangeable at least during

said *encrypting of said changeable key re-encrypted digital data*;

decrypting said copied, stored and/or transferred changeable-unchangeable keys double re-encrypted digital data using

said *unchangeable key* to

said changeable key re-encrypted digital data; and

decrypting said changeable key re-encrypted digital data using

said *changeable key* to

said *decrypted digital data*.”.

5. Dependent claims 88,90-101,103,105-116,118,120-135,137,139-154,156-166,168-178 are allowable by virtue of their dependencies.

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Conclusion

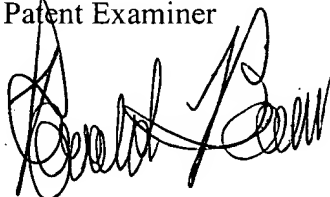
6. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh, can be reached at (571) 272-3795. The Fax number for the organization where this application is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

Patent Examiner




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